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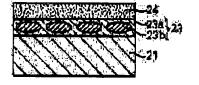
(54) MAGNETIC RECORDING MEDIUM AND DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To increase the coercive force of a magnetic recording medium by forming a magnetic layer on a substrate by uniformly distributing specific Co-Pt crystal grains having a specific average particle size and a specific fcc structure in a thin nonmagnetic film and specifying the product of the remanence magnetization and film thickness of the magnetic recording layer.

SOLUTION: After a Co100-xPtx/SiO2 granular film 23 is formed on an Si substrate 21, the surface of the film 23 is covered with a carbon protective film 24. The recording layer 23 is formed by dispersing fine ferromagnetic Co100-xPtx (10≤x<20) crystal grains 23b having an average particle size of ≤150nm in

nonmagnetic SiO2 23a. At the time of forming the recording layer 23, the value of the product of the film thickness and remanent magnetization of the layer 23 is adjusted to \leq 150 Gauss. μ m. The coercive force of the obtained magnetic recording layer 23 becomes \geq 1,500Oe.



LEGAL STATUS

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